

SAFETY STRIP 88 PLUS

Product number: 331026



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SAFETY STRIP 88 PLUS
Product number 331026
Company information Brulin & Company, Inc.
P.O. Box 270
Indianapolis, IN 46206 US
www.Brulin.com
Emergency CHEMTREC 1-800-424-9300
General information Phone: 317-923-3211
Fax: 317-925-4596

2. Hazards Identification

Emergency overview Harmful by inhalation, in contact with skin and if swallowed. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Potential health effects

Eyes Severely irritating; if not removed promptly, will injure eye tissue, which may result in permanent damage. Avoid contact with eyes.

Skin Avoid contact with the skin. Contact will irritate or burn skin.

Inhalation Do not breathe gas/fumes/vapor/spray. Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1-Methyl-2-pyrrolidone	872-50-4	< 60
Ethanolamine	141-43-5	< 40
Petroleum distillates, hydrotreated middle	64742-46-7	< 20
Non-hazardous and other components below reportable levels		> 2.5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention.

Skin contact Wash off immediately with soap and plenty of water. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if irritation develops or persists.

Ingestion Give several glasses of water. Get medical attention or advice.

General advice Call a physician if symptoms develop or persist. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Water spray. Alcohol foam. Polymer foam. Dry chemical powder.

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6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Never return spills in original containers for re-use. Large Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Soak up with inert absorbent material and dispose of as hazardous waste. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Do not breathe gas/fumes/vapor/spray. Do not get this material in your eyes, on your skin, or on your clothing. Do not handle or store near an open flame, heat or other sources of ignition. When using do not eat or drink.
Storage	Keep in a well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, and flame. Keep at temperatures between 4 and 49°C.

8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection	Wear as appropriate: safety glasses with side-shields or goggles or face-shield.
Skin protection	Protective gloves. Nitrile rubber. If splashes are likely to occur, wear: apron
Respiratory protection	Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Not available.
Color	yellow to amber
Odor	amine
Odor threshold	Not available.
Form	Liquid.
pH	13.4
Freezing point	< 0 °F (< -17.8 °C)
Boiling point	> 338 °F (> 170 °C)
Flash point	229 °F (109.4 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor density	Not available.
Specific gravity	0.9945
Solubility (water)	87.3
VOC	84.69 %

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10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Direct sources of heat.
Incompatible materials	Acids. Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx).
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Acute effects	Acute LD50: 2789 mg/kg, Rat, Oral Acute LD50: 3202 mg/kg, Rat, Dermal Acute LC50: 5 mg/l/4h, Rat, Inhalation Causes burns.
Local effects	Harmful by inhalation, in contact with skin and if swallowed.
Chronic effects	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal Considerations

Waste codes	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]
Disposal instructions	Dispose in accordance with all applicable regulations. Do not dispose of waste into sewer.
Contaminated packaging	Triple rinse containers. Can be offered for recycling, re-conditioning or puncture.

14. Transport Information

DOT

Basic shipping requirements:

Proper shipping name	Ethanolamine
Hazard class	8
UN number	UN2491
Packing group	III
Additional information:	
Special provisions	IB3, T4, TP1
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ERG number	153

DOT Requirements NON-BULK

Basic shipping requirements:

UN number	UN2491
Proper shipping name	Ethanolamine
Hazard class	8
Packing group	III
Additional information:	
Special provisions	IB3, T4, TP1
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
Labels required	8

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IATA

Basic shipping requirements:

Proper shipping name Ethanolamine solution
Hazard class 8
UN number UN2491
Packing group III

Additional information:

Packaging exceptions 154
Packaging instructions cargo only 820
Packaging non bulk 203
Packaging bulk 241
Maximum net quantity packaging 5 L
Maximum net quantity packaging cargo only 60 L
Labels required 8
ERG code 8L

IMDG

Basic shipping requirements:

Proper shipping name ETHANOLAMINE or ETHANOLAMINE SOLUTION
Hazard class 8
UN number UN2491
Packing group III

Additional information:

Packaging exceptions 154
Hazard ID 80
Item C7
Labels required 8
Transport Category 3



DOT



DOT Non-Bulk



IATA



IMDG

15. Regulatory Information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1-Methyl-2-pyrrolidone (872-50-4) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Reportable threshold/Manufacturing and processing

1-Methyl-2-pyrrolidone (872-50-4) 25000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Reportable threshold/Otherwise used (non-manufacturing/processing)

1-Methyl-2-pyrrolidone (872-50-4) 10000 LBS

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

1-Methyl-2-pyrrolidone (872-50-4) Listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

1-Methyl-2-pyrrolidone (872-50-4) Listed: June 15, 2001 Developmental toxin.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

1-Methyl-2-pyrrolidone (872-50-4) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

1-Methyl-2-pyrrolidone (872-50-4) Listed.

Ethanolamine (141-43-5) Listed.

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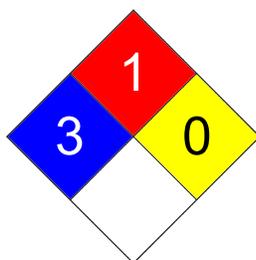
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16. Other Information

HMIS rating

Health	* 3
Flammability	1
Physical Hazard	0
Personal Protection	B

NFPA codes



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Issue date

10-27-2008

This data sheet contains changes from the previous version in section(s):

Regulatory Information: United States